



STATE OF WISCONSIN

Department of Safety and
Professional Services

Approval # 20110007
(Renewal for 20010023)

Environmental & Regulatory Services Division
Bureau of Petroleum Products and Tanks
201 West Washington Avenue
P.O. Box 7837
Madison, WI 53707-7837

Wisconsin SPS 310 Material Approval

Equipment: Secondary Containment Vessel

Manufacturer: Crest Precast Concrete, Inc.
8158 Industrial Drive
Barneveld, WI 53507

Expiration of Approval: December 31, 2014

SCOPE OF EVALUATION

The secondary containment vessels manufactured by Crest Precast Concrete, Inc. were evaluated against the diking requirements of **s. SPS 310.420** and the vehicle collision protection requirements of **ss. SPS 310.430** of the Wisconsin Flammable and Combustible Liquids Code.

DESCRIPTION AND USE

The Crest secondary containment vessels are made of steel-reinforced concrete. Rainwater collects in a corner sump and is removed by a manually primed siphon hose. All models have four tie-down anchors cast in.

APPROVED MODELS			
MODEL NUMBER	CAPACITY (GAL)	MAXIMUM TANK CAPACITY (GAL)	MAXIMUM TANK DIMENSION (INCH)
400	540	400	DIAMETER 38 LENGTH 60
550	722	575	DIAMETER 50 LENGTH 72
550-24 (24-inch clearance)	945	575	DIAMETER 50 LENGTH 76
1000	1295	1025	DIAMETER 64 LENGTH 76
1000 Low (Low Profile)	1317	1040	DIAMETER 48 LENGTH 132
1000-24 (24-inch clearance)	1345	1040	DIAMETER 48 LENGTH 132
2000	2512	2000	DIAMETER 64 LENGTH 170

TESTS AND RESULTS

Dimensioned drawings are on file with the department showing configurations and capacities. Calculations were submitted showing adequate collision impact resistance to meet **s. SPS 310.430**.

LIMITATIONS / CONDITIONS OF APPROVAL

In accordance with **s. SPS 310.420(2)(b)**, the secondary containment vessel shall have a capacity 25 percent larger than the largest tank it contains.

In accordance with **s. SPS 310.420**, the tank shall be elevated at least 3 inches above the floor of the secondary containment vessel and have at least 12 inches of clearance on all sides to allow for visual inspection.

Additional vehicle collision protection, such as posts or rails in accordance with **s. SPS 310.430** are not required provided the tank is fastened with anchor bolts in the center of the vessel and shear valves, flexible connectors or other protective devices are installed on product and/or electrical lines to assure adequate system flexibility should the system be displaced by collision.

Dike construction shall use minimum 9 gage welded wire fabric in a 12 x 12 configuration.

This approval will be valid through December 31, 2014, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Effective Date: January 1, 2012

Reviewed by: Signature on file
Greg Bareta, P. E.
Engineering Consultant
Bureau of Petroleum Products and Tanks

Approved by: Signature on file Date: